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# 1 [Query processing over object views of relational data](#)

Gustav Fahl, Tore Risch

November 1997 The VLDB Journal — The International Journal on Very Large Data Bases, Volume 6 Issue 4

Publisher: Springer-Verlag New York, Inc.

Additional Information: [full citation](#), [abstract](#),

Full text available: [pdf\(454.31 KB\)](#)

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This paper presents an approach to *object view* management for relational databases. Such a view mechanism makes it possible for users to transparently work with data in a relational database as if it was stored in an object-oriented (OO) database. ...

Keywords: Object views, Object-oriented federated databases, Query optimization, Relational databases, query processing

# 2 [The GMAP: a versatile tool for physical data independence](#)

Odysseas G. Tsatalos, Marvin H. Solomon, Yannis E. Ioannidis

April 1996 The VLDB Journal — The International Journal on Very Large Data Bases, Volume 5 Issue 2

Publisher: Springer-Verlag New York, Inc.


Additional Information: [full citation](#), [abstract](#),

Full text available: [pdf\(228.04 KB\)](#)

[references](#), [cited by](#), [index terms](#)

Physical data independence is touted as a central feature of modern database systems. It allows users to frame queries in terms of the logical structure of the data, letting a query processor automatically translate them into optimal plans that access ...

Keywords: Indexing, Materialized views, Physical data independence, Physical database design


- 3 [Methods for the semantic analysis of document markup](#)  
 Petra Saskia Bayerl, Harald Lungen, Daniela Goecke, Andreas Witt, Daniel Naber  
 November 2003 DocEng '03: Proceedings of the 2003 ACM symposium on Document engineering  
 Publisher: ACM

Full text available:  [pdf\(230.61 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

We present an approach on how to investigate what kind of semantic information is regularly associated with the structural markup of scientific articles. This approach addresses the need for an explicit formal description of the semantics of text-oriented ...


Keywords: XML, information extraction, prolog, semantic analysis

- 4 [Fast detection of communication patterns in distributed executions](#)  
 Thomas Kunz, Michiel F. H. Seuren  
 November 1997 CASCON '97: Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research  
 Publisher: IBM Press

Full text available:  [pdf\(4.21 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)


Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event ...

- 5 [One-dimensional and multi-dimensional substring selectivity estimation](#)  
 H. V. Jagadish, Olga Kapitskaia, Raymond T. Ng, Divesh Srivastava  
 December 2000 The VLDB Journal — The International Journal on Very Large Data Bases, Volume 9 Issue 3  
 Publisher: Springer-Verlag New York, Inc.

Full text available:  [pdf\(215.66 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

With the increasing importance of XML, LDAP directories, and text-based information sources on the Internet, there is an ever-greater need to evaluate queries involving (sub)string matching. In many cases, matches need to be on multiple attributes/dimensions, ...

Keywords: Maximal overlap, Pruned count-suffix tree, Short memory property, String selectivity

- 6 [Shortest-substring retrieval and ranking](#)  
 Charles L. A. Clarke, Gordon V. Cormack  
 January 2000 ACM Transactions on Information Systems (TOIS), Volume 18 Issue 1  
 Publisher: ACM

Additional Information: [full citation](#), [abstract](#),

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[Glimmerglass.com/Optical](#)

Full text available:  pdf(228.35 KB)

[references](#), [cited by](#), [index terms](#)

We present a model for arbitrary passage retrieval using Boolean queries. The model is applied to the task of ranking documents, or other structural elements, in the order of their expected relevance. Features such as phrase matching, truncation, and ...

**Keywords:** Boolean retrieval model, passage retrieval, relevance ranking


## 7 [Extracting usability information from user interface events](#)



David M. Hilbert, David F. Redmiles

December 2000 ACM Computing Surveys (CSUR), Volume 32 Issue 4

Publisher: ACM

Full text available:  pdf(1.50 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#), [review](#)

Modern window-based user interface systems generate user interface events as natural products of their normal operation. Because such events can be automatically captured and because they indicate user behavior with respect to an application's user interface, ...

**Keywords:** human-computer interaction, sequential data analysis, usability testing, user interface event monitoring

## 8 [Summarizing scientific articles: experiments with relevance and rhetorical status](#)

Simone Teufel, Marc Moens

December 2002 Computational Linguistics, Volume 28 Issue 4

Publisher: MIT Press

Full text available:  pdf(424.69 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

In this article we propose a strategy for the summarization of scientific articles that concentrates on the rhetorical status of statements in an article: Material for summaries is selected in such a way that summaries can highlight the new contribution ...

## 9 [An analysis of XML database solutions for the management of](#)



[MPEG-7 media descriptions](#)

Utz Westermann, Wolfgang Klas

December 2003 ACM Computing Surveys (CSUR), Volume 35 Issue 4

Publisher: ACM

Full text available:  pdf(448.76 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#), [review](#)

MPEG-7 constitutes a promising standard for the description of multimedia content. It can be expected that a lot of applications based on MPEG-7 media descriptions will be set up in the near future. Therefore, means for the adequate management of large ...

Keywords: MPEG-7, XML database systems, multimedia databases

10 [Unsupervised learning of soft patterns for generating definitions from online news](#)



Hang Cui, Min-Yen Kan, Tat-Seng Chua

May 2004 WWW '04: Proceedings of the 13th international conference on World Wide Web

Publisher: ACM

Full text available: [pdf\(165.57 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Breaking news often contains timely definitions and descriptions of current terms, organizations and personalities. We utilize such web sources to construct definitions for such terms. Previous work has identified definitions using hand-crafted rules ...

Keywords: definition generation, definitional question answering, pseudo-relevance feedback, soft patterns, unsupervised learning

11 [In search of information in visual media](#)



Amarnath Gupta, Simone Santini, Ramesh Jain

December 1997 Communications of the ACM, Volume 40 Issue 12

Publisher: ACM

Full text available: [pdf\(1.58 MB\)](#) Additional Information: [full citation](#), [references](#), [cited by](#), [index terms](#)

12 [Sequence mining in categorical domains: incorporating constraints](#)



Mohammed J. Zaki

November 2000 CI KM '00: Proceedings of the ninth international conference on Information and knowledge management

Publisher: ACM

Full text available: [pdf\(622.26 KB\)](#) Additional Information: [full citation](#), [references](#), [cited by](#), [index terms](#)

13 [A probabilistic account of logical metonymy](#)

Maria Lapata, Alex Lascarides

June 2003 Computational Linguistics, Volume 29 Issue 2

Publisher: MIT Press

Full text available: [pdf\(551.99 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

In this article we investigate logical metonymy, that is, constructions in which the argument of a word in syntax appears to be different from that argument in logical form (e.g., enjoy the book means enjoy reading the book, and easy problem means a ...

14 [Customizing information capture and access](#)



Daniela Rus, Devika Subramanian

January 1997 ACM Transactions on Information Systems (TOIS),

Volume 15 Issue 1

Publisher: ACM

Full text available: [pdf\(1.26 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#),  
[cited by](#), [index terms](#), [review](#)

This article presents a customizable architecture for software agents that capture and access information in large, heterogeneous, distributed electronic repositories. The key idea is to exploit underlying structure at various levels ...

Keywords: information gathering, software agents, table recognition

15 [Focused named entity recognition using machine learning](#)



Li Zhang, Yue Pan, Tong Zhang

July 2004 SIGIR '04: Proceedings of the 27th annual international ACM

SIGIR conference on Research and development in information  
retrieval

Publisher: ACM

Full text available: [pdf\(208.61 KB\)](#) Additional Information: [full citation](#), [abstract](#),  
[references](#), [cited by](#), [index terms](#)

In this paper we study the problem of finding most topical named entities among all entities in a document, which we refer to as focused named entity recognition. We show that these focused named entities are useful for many natural language processing ...

Keywords: decision tree, information retrieval, naive bayes, robust risk minimization, text summarization, topic identification

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